

WHAT IS CLAIMED IS:

1. A spill containment pipe system comprising:
 - a spill containment pipe for capturing a leak from a pipeline surrounded by the spill containment pipe;
 - a leak detection system for determining if a leak from the pipeline has occurred;
 - a centralizer ring for preventing the pipeline from directly contacting the spill containment pipe; and
 - a galvanic anode ribbon for aiding in cathodic protection of the spill containment pipe system.
2. The system of claim 1, wherein the leak detection system comprises:
 - a leak detection power conduit for providing power to the leak detection system.
3. The system of claim 1, wherein the spill containment pipe is formed of High Density Polyethylene (HDPE).
4. The system of claim 1, wherein the galvanic anode ribbon is formed of zinc.

5. The system of claim 1, wherein the galvanic anode ribbon is formed of magnesium.

6. The system of claim 1, further comprising:
a plurality of junction boxes for monitoring a level of fluid within the spill containment pipe.

7. The system of claim 1, further comprising:
a plurality of copper sulfate reference half-cells for providing cathodic protection potentials.

8. The system of claim 1, wherein the spill containment pipe is formed in fifty foot lengths.

9. The system of claim 1, wherein the spill containment pipe is formed with a diameter of thirty inches.

10. The system of claim 1, further comprising:
at least one flange adaptor fused to the spill containment pipe for connecting with a second section of spill containment pipe or a steel casing pipe.

11. The system of claim 10, further comprising:

a steel flange for connecting the flange adaptor to the steel casing pipe or the second section of spill containment pipe.

12. The system of claim 1, further comprising:

at least one riser for facilitating testing of an environment surrounding the pipeline and within the spill containment pipe.

13. A pipeline protection system for preventing fluid from leaking from a pipeline to the surrounding environment, the system comprising:

a spill containment pipe for capturing leaked fluid from the pipeline surrounded by the spill containment pipe; and

a bore pit in select flow communication with the spill containment pipe, the bore pit for receiving an amount of leaked fluid captured by the spill containment pipe and directed to the bore pit.

14. The system of claim 13, wherein the bore pit includes an enlarged trench area in flow communication for containing fluid from the pipeline in a subsurface arrangement.

15. The system of claim 13, wherein the bore pit comprises:

substantially vertical side walls, the side walls being formed of a substantially fluid impervious material;

a lower barrier in engagement with the side walls, the lower barrier being formed of a substantially fluid impervious material; and

a first bonding agent adapted for bonding the vertical side walls to the lower barrier.

16. The system of claim 15, wherein the first bonding agent comprises an epoxy adhesive capable of accommodating movement within the bore pit.

17. The system of claim 15, further comprising:

a joint seal for providing a fluid impervious seal across a joint between the side walls and the lower barrier.

18. The system of claim 17, wherein the width of the joint seal extending from the side walls across the lower barrier is on the order of ten inches.

19. The system of claim 18, wherein the joint seal comprises a spray-applied polyurethane material.

20. The system of claim 15, further comprising:
at least one support for supporting the pipeline above the lower barrier.

21. The system of claim 15, further comprising:
backfill adapted for positioning at least one of around and above the pipeline, the backfill permitting fluid within the bore pit to propagate through interstitial regions therebetween.

22. The system of claim 15, further comprising:
an upper barrier extending across the side walls and above the backfill, the upper barrier for preventing fluid from exiting or entering the bore pit.

23. A method of creating a containment system adapted for containing at least a predetermined volume of fluid released from a pipeline disposed therein, the method comprising the steps of:

excavating a trench in a ground area for housing at least a portion of the containment system;

positioning a centralizer ring around the pipeline;

placing a leak detection system substantially contacting the pipeline for determining if a leak from the pipeline has occurred;

placing a galvanic anode ribbon substantially contacting the pipeline for aiding in cathodic protection;

encasing the pipeline with a spill containment pipe for capturing a leak from a pipeline; and

placing the encased pipeline within the excavated trench.

24. The method of claim 23, wherein the step of placing a leak detection system comprises:

placing a leak detection power conduit at an upper portion of the pipeline; and

placing a leak detection well screen conduit at an upper portion of the pipeline.

25. The method of claim 23, further comprising the step of:

forming a bore pit, the bore pit being an enlarged subsurface containment area.

26. The method of claim 25, further comprising the step of:

directing leaked fluid through the spill containment pipe into the bore pit.